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Development of a position-sensitive ionization chamber for astrophysical measurements

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Intensity monitoring and particle identification of beams and beam-like heavy recoils can improve the accuracy of a cross section measurement in nuclear astrophysics. A gas-filled ionization chamber is still well-suited for this purpose due to its sturdiness against radiation damage and relatively good energy resolution. To overcome the maximum counting rate of about 100,000 pps for conventional ionization chamber, a new fast response ionization chamber with multi-electrodes was developed at the Sungkyunkwan University. By adopting two position-sensitive anodes, the position information of the incident charged particle could be obtained as well. The results of off-line tests using alpha emitting source and future plan of commissioning will be presented.

Presenter: KWAG, Minsik

Session Classification: Poster session (Chair: K. Cho)